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### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5: B65D 81/32, A47L 13/17

(11) International Publication Number:

WO 93/10019

A45D 37/00

A1 (43) International Publication Date:

27 May 1993 (27.05.93)

(21) International Application Number:

PCT/GB92/02085

Published

(22) International Filing Date:

11 November 1992 (11.11.92)

With international search report.

(30) Priority data:

9124364.2

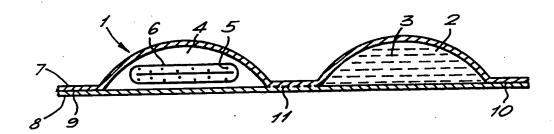
15 November 1991 (15.11.91) GB

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(81) Designated States: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG).

(54) Title: MULTI-COMPARTMENT PACKAGE



(57) Abstract

A multi-compartment package (1) characterised by a first compartment (2) containing a liquid component (3) and a second compartment (4) containing a powder component (5) and means actuatable to permit the two compartments (2, 4) to communicate to allow mixing of the powder component (5) with the liquid component (3), and characterised in that one of the compartments (2, 4) also contains a textile component (6) which is impregnated with the liquid mixture before the package is opened. In a preferred embodiment, the liquid component is water, the powder component is a disinfectant and the textile component is a wiping cloth.

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TITLE: MULTI-COMPARTMENT PACKAGE

#### DESCRIPTION

#### Technical Field

The invention relates to a multi-compartment package arranged such that components in the compartments can be stored separately and can be introduced to one another at the time of use and before the package is opened.

#### Background Art

Many such packages are known and are used, for example, to store chemical compounds which react together when mixed.

It is an object of the invention to provide a portable multi-compartment package to overcome a problem which exists in the storage of disinfectants for personal use in emergency situations so that minor wounds can be treated quickly in the field as a temporary or first aid measure.

#### Disclosure of the Invention

According to the invention a package has a first compartment containing a liquid component, a second compartment containing a powder component and means actuatable to permit the two compartments to communicate to allow mixing of the powder component with the liquid component, wherein one of the compartments also contains a textile component which is impregnated with the liquid mixture before the package is opened.

After opening the impregnated textiles component can thus be employed as a wiping cloth.

From one aspect the invention is a package having a

an alternative to a rupturable partition, the two compartments could be separated by a removable clip, in a case where the package is sufficiently flexible to allow the clip to deform the package into two separate compartments. Thus in use the clip can be removed so that the powder can be dispersed in the liquid and the resulting liquid mixture impregnated into the textiles material before the package is opened.

The textiles component may be in the form of a wiping cloth which may be of a non-woven textiles material. The powder component may be a disinfecting composition which may contain a bactericide and/or a viricide and/or a fungicide or the like. Such compositions are described in the specification of U.K. Patent GB-A-2164851 of T.R. Auchincloss. The liquid component may be water.

The package is preferably in the form of a sachet made from flexible sheet material e.g. plastics sheet which may be heat sealed to form the compartments. The rupturable partition may be of plastics sheet and may be rupturable by being relatively thin as compared with the sheets forming U.K. layers of the package. exterior specification GB-A-2122166 of B.R. Pike describes such a Alternatively the package may be rupturable partition. formed with a reduced thickness weakened portion or a mechanically weakened portion e.g. scoreline, or a alternatively may be formed with a weakened section of seal between the two compartments.

If desired the package may be transparent, at least in part. The compartments of the package may be disposed end-to-end in which case they could be separated by a weakened seal or, if desired, by a removable clip which squeezes the package flat at an intermediate position to form the two compartments. As an alternative the package may be composed of three superposed layers of plastics material which are heat-sealed about their peripheries to form two superposed compartments. In this case the intermediate layer can form a rupturable membrane.

#### Brief Description of the Drawings

The invention is diagrammatically illustrated, by way of example, in the accompanying drawing which shows a side view of a transparent package composed of two compartments disposed end-to-end.

#### Best Mode for Carrying Out the Invention

Referring to the drawing there is provided a portable package 1 for emergency field use made from flexible heat-sealed plastics sheet comprising a first compartment 2 containing water 3 and a second compartment 4 containing a powder disinfectant 5 of the kind described in GB-A-2164851 and a textile wiping cloth 6. The package is in the form of a sachet formed from two superposed layers of plastics 7,8 heat-sealed about their peripheries 9,10 and at an intermediate position 11 to form the two compartments 2,4. The intermediate seal 11 is arranged to be weak so that it can be ruptured to allow communication between the two compartments 2,4; see GB-A-2122166. When the two

compartments 2,4 are permitted to communicate the powder disinfectant 5 is dispersed in the water 3 and the resulting liquid disinfectant impregnates the wiping cloth 6 before the package is opened by tearing or cutting the outer layers 7,8. Thus a disinfectant wipe is available for topical application allowing the treatment of minor wounds quickly and easily.

Although in the drawing the two compartments of the sachet are disposed end-to end, as an alternative the two compartments of the sachet may be superposed.

In the latter arrangement the sachet may comprise a package consisting of three superposed layers of plastics sheet which are heat-sealed around their edges to form a two compartment envelope, the two outer layers being relatively tough compared to the intermediate layer of sheet. Thus in use the intermediate layer can be ruptured to allow communication between the two compartments for the reason aforesaid.

Although the package illustrated is formed of transparent material it will be appreciated that other materials, such as plastic-backed foil, may be employed.

### Industrial Applicability

The embodiment of the invention particularly described with reference to the drawing thus provides a portable multi-compartment package which is compact and easy to use.

#### CLAIMS

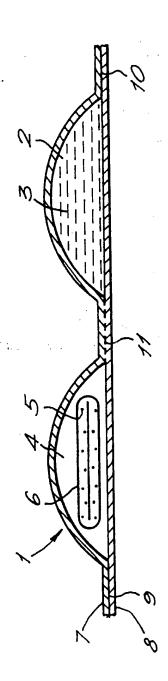
- 1. A multi-compartment package (1) characterised by a first compartment (2) containing a liquid component (3) and a second compartment (4) containing a powder component (5) and means actuatable to permit the two compartments (2),(4) to communicate to allow mixing of the powder component (5) with the liquid component (3), and characterised in that one of the compartments (2),(4) also contains a textiles component (6) which is impregnated with the liquid mixture before the package is opened.
- 2. A multi-compartment package according to claim 1, characterised in that the actuatable means is a rupturable partition (11).
- 3. A multi-compartment package according to claim 1, characterised in that the actuatable means is a removable clip.
- 4. A multi-compartment package according to any one of claims 1 to 3, characterised in that the textile component (6) is in the form of a wiping cloth.
- 5. A multi-compartment package according to any preceding claim, characterised in that the powder component (5) is a disinfecting composition which may contain a bactericide and/or a viricide and/or a fungicide.
- 6. A multi-compartment package according to any preceding claim, characterised in that the liquid component (3) is water.
- 7. A multi-compartment package according to any preceding claim, characterised in that the package is in the form of

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- a sachet made from flexible sheet material, e.g. plastics.
- 8. A multi-compartment package according to claim 7, characterised in that the flexible sheet material is heat sealed to form the compartments (2),(4).
- 9. A multi-compartment package according to any preceding claim, characterised in that the compartments (2),(4) are disposed end-to-end.
- 10. A multi-compartment package according to any preceding claim, characterised in that the compartments (2),(4) are superposed.

April 1985 April 1985 April 1986 April 1986

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I. CLASSIFICATION OF SUBJ	ECT MATTER (if several classification symbol	ls apply, indicate all) <sup>6</sup>	
According to International Paten	t Classification (IPC) or to both National Classif 2; A47L13/17;	fication and IPC A45D37/00	
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III. DOCUMENTS CONSIDE	LED TO BE RELEVANT <sup>9</sup>		
	Document, 11 with indication, where appropriate,	of the relevant passages 12	Relevant to Claim No. <sup>13</sup>
l 14 Jan	202 856 (BRETONNIER ET AL uary 1960 e whole document	)	1,4-5, 7-9
8 Marc	002 166 (FIBRE TREATMENTS h 1990 ge 2, line 23 - line 32	<b>5)</b>	1,4-5, 7-9 6
16 Nov	423 413 (LABBE) ember 1979 ge 1, line 18 - line 34	N.	2,8-9
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considered to be of pa "E" earlier document but ifiling date "L" document which may which is cited to estal citation or other specific other means	ricular relevance published on or after the international throw doubts on priority claim(s) or lish the publication date of another al reason (as specified) o an oral disclosure, use, exhibition or rior to the international filing date but	"I" later document published after the intern or priority date and not in conflict with the cited to understand the principle or theoretical invention. "X" document of particular relevance, the classifiered novel or cannot be considered novel or cannot be involve an inventive step. "Y" document of particular relevance; the classifiered to involve an inventional becoment is combined with one or more ments, such combination being obvious in the art. "&" document member of the same patent far	the application but ry underlying the  simed invention considered to  aimed invention tive step when the other such docu- to a person skilled
IV. CERTIFICATION			
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m DOCIM	ENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)	Relevant to Claim No.		
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## ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO.

GB 9202085 SA 66522

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on

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	None		
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16-11-79	None		
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04-09-73	None		
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